BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Maintenance of BBMP Drilled Borewells and Providing Pipeline in Ward No. 09, (Vidyaranyapura).

Estimated Cost : Rs. 8.00 Lakhs

Job Code: 009-22-000002

Head of Account : P-1802 Water Supply New Areas

Name of Agency: Sri Nataraj. T, No. 2, 1st Main Amar Jyothi Layout, Cholanagara, R T Nagar (Post), Bangalore - 560032.

Work order No: BBMP/EE/BTP/WO/44/2021-22 Dated: 07-03-2022.

Measurements Recarded on : 10-05-2022

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Specification and direction	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
					Total Qty =		9		
					Qty Limited to =		8	1158.90	**9271.00**

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2	Transportation of pumping machineries	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
					Total Qty =		9		
					Qty Limited to =		8	970.97	**7768.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
3	Labour charges (over hauling)	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	2738.39	21907.00

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4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months.								
	D. Rewinding of motor of 10.0 HP	Each							
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	5. Kempegowdanaga Main Road		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
				Total Qty =			4		
				Qty Limited to =			3	4259.72	12779.00

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5	**E. Rewinding of motor of 12.5 HP**	Each							
	1. 1st Cross Telecom Layout		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	6. 2nd Cross APC Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			5	4760.87	23804.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
	B) Replacement of Motor Parts:								
6	Starter 5 HP (with one year Guarantee)	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
						Total Qty =	9		
						Qty Limited to =	8	4953.27	**39626.00**

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7	Rotor (with one year Guarantee)	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
						Total Qty =	9		
						Qty Limited to =	8	4631.11	**37049.00**

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8	Upper Flange	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
						Total Qty =	9		
						Qty Limited to =	8	357.96	**2864.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
9	Lower Flange	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	357.96	2864.00

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10	Upper Housing	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	647.91	5183.00

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11	Lower Housing	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	647.91	5183.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
12	**Carbon housing** Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad.	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
					Total Qty =		9		
					Qty Limited to =		8	1017.50	**8140.00**

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13	**C) Replacement of pump parts:** The following main components of submersible pump sets requiring replacement. Oil Seal	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
					Total Qty =		9		
					Qty Limited to =		8	153.03	**1224.00**

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14	Oil Seal Steel bush	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
					Total Qty =		9		
					Qty Limited to =		8	153.03	**1224.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
15	Guide vane	Each							
	1. 1st Cross Telecom Layout		22				22		
	2. 5th Main, Deshabandunagara		30				30		
	3. Muniswamappa Layout Main Road near Farm		30				30		
	4. 2nd Cross Lakeshore Garden		22				22		
	5. Kempegowdanaga Main Road		30				30		
	6. 2nd Cross APC Layout		30				30		
	7. Kunte Road Bullet Krishnappa Layout		22				22		
	8. 2nd Main Bullet Krishnappa Layout		30				30		
	9. Siddilingeshwara Layout Main Road		30				30		
			Total Qty =				246		
			Qty Limited to =				240	402.70	96648.00

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16	Impeller Shell moulded with aluminium Bronze)	Each							
	1. 1st Cross Telecom Layout		22				22		
	2. 5th Main, Deshabandunagara		30				30		
	3. Muniswamappa Layout Main Road near Farm		30				30		
	4. 2nd Cross Lakeshore Garden		22				22		
	5. Kempegowdanaga Main Road		30				30		
	6. 2nd Cross APC Layout		30				30		
	7. Kunte Road Bullet Krishnappa Layout		22				22		
	8. 2nd Main Bullet Krishnappa Layout		30				30		
	9. Siddilingeshwara Layout Main Road		30				30		
			Total Qty =				246		
			Qty Limited to =				240	610.32	146477.00

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17	Discharge outlet (D.O) Bearing D.O Steel Bush	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
			Total Qty =				9		
			Qty Limited to =				8	572.74	4582.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
18	Steel bush (D.O steel bush)	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	190.61	1525.00

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19	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages)	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	1146.37	9171.00

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20	Non – return valve (NRV) assembly complete with rubber 'O' Ring	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	281.89	2255.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
21	Cable Guard	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	157.50	1260.00

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22	Brass Filter	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	569.16	4553.00

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23	Re-erection charges of pumping machineries including overhauling and pointing	Each							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	8. 2nd Main Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
				Total Qty =			9		
				Qty Limited to =			8	1531.17	12249.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
	Other Parts								
24	Heavy Duty Collar 50 mm dia	Nos							
	2. 5th Main, Deshabandunagara		3				3		
	3. Muniswamappa Layout Main Road near Farm		3				3		
					Total Qty =		6		
					Qty Limited to =		5	161.08	

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25	Providing non-return valve 50 mm	Nos							
	5. Kempegowdanaga Main Road		3				3		
	6. 2nd Cross APC Layout		2				2		
					Total Qty =		5		
					Qty Limited to =		4	1800.00	**7200.00**

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26	Providing Gate Valve 50 mm	Nos							
	1. 1st Cross Telecom Layout		1				1		
	3. Muniswamappa Layout Main Road near Farm		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	6. 2nd Cross APC Layout		1				1		
	7. Kunte Road Bullet Krishnappa Layout		1				1		
	9. Siddilingeshwara Layout Main Road		1				1		
					Total Qty =		6		
					Qty Limited to =		5	1610.82	**8054.00**

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27	Submersible Cable 1x3x6.0 Sq.mm	M							
	1. 1st Cross Telecom Layout		1	12.00			12.00		
	2. 5th Main, Deshabandunagara		1	6.00			6.00		
	4. 2nd Cross Lakeshore Garden		1	6.00			6.00		
	5. Kempegowdanaga Main Road		1	15.00			15.00		
	6. 2nd Cross APC Layout		1	10.00			10.00		
	9. Siddilingeshwara Layout Main Road		1	6.00			6.00		
					Total Qty =		55.00		
					Qty Limited to =		50.00	128.87	**6444.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
28	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws.,	Each							
	7. Kunte Road Bullet Krishnappa Layout		1				1		
							1	261.31	**261.00**

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29	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.	Mtr							
	40mm dia GI pipe								
	7. Kunte Road Bullet Krishnappa Layout		1	4.00			4.00		
							4.00	299.79	**1199.00**

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30	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.	No.							
	16Sqmm								
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
							2	241.62	**483.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
31	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia,	No							
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
							2	2684.43	**5369.00**

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32	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.	No.							
	32 Amps								
	2. 5th Main, Deshabandunagara		3				**3**		
	4. 2nd Cross Lakeshore Garden		3				**3**		
							6	155.71	**934.00**

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33	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **6-32Amps**	No							
	1. 1st Cross Telecom Layout		1				1		
	2. 5th Main, Deshabandunagara		1				1		
	4. 2nd Cross Lakeshore Garden		1				1		
	5. Kempegowdanaga Main Road		1				1		
							4	1534.75	**6139.00**

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
34	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete	Sq.Cm							
	16SWG								
	2. 5th Main, Deshabandunagara		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	5. Kempegowdanaga Main Road		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	9. Siddilingeshwara Layout Main Road		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
							75600.00	0.31	**23436.00**

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35	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means .	Cum							
	1. 1st Cross Telecom Layout		4	30.00	0.60	0.60	43.20		
	2. 5th Main, Deshabandunagara		3	30.00	0.60	0.60	32.40		
			1	10.00	0.60	0.60	3.60		
	5. Kempegowdanaga Main Road		2	30.00	0.60	0.60	21.60		
			1	20.00	0.60	0.60	7.20		
	6. 2nd Cross APC Layout		2	30.00	0.60	0.60	21.60		
			1	5.00	0.60	0.60	1.80		
	9. Siddilingeshwara Layout Main Road		1	30.00	0.60	0.60	10.80		
			1	5.00	0.60	0.60	1.80		
							144.00		
							144.00	234.58	**33780.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
36	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	Rmtr							
	75 mm dia 6 KSC PVC pipe								
	1. 1st Cross Telecom Layout		4	30.00			120.00		
	2. 5th Main, Deshabandunagara		3	30.00			90.00		
			1	10.00			10.00		
	5. Kempegowdanaga Main Road		2	30.00			60.00		
			1	20.00			20.00		
	6. 2nd Cross APC Layout		2	30.00			60.00		
			1	5.00			5.00		
	9. Siddilingeshwara Layout Main Road		1	30.00			30.00		
			1	5.00			5.00		
							400.00		
							400.00	185.77	**74308.00**

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37	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including watering, consolidation in layers of 15 cm thick including disposing of the sunplus earth with a lead of 200 mtrs	Cum							
			Qty. Vide Item No. 35				**144.00**	92.26	**13285.00**
	Sub Total								**638498.00**
	GST @ 12%								**76620.00**
								Total	**715118.00**

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(Contractor)